

2621 #2

PATENT  
Atty. Docket No. XP-1002 (1660/90)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Crounse

SERIAL NUMBER: 10/007,440

FILING DATE: December 4, 2001

TITLE:

HALFTONING WITH UNIFORMLY DISPERSED DOT GROWTH

GROUP ART UNIT: 2621

EXAMINER: Not yet assigned


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**CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8**

I hereby certify that this correspondence, and any documents referred to as enclosed herein, are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to the Commissioner for Patents, Washington, DC 20231 on this 26<sup>th</sup> day of March, 2002

  
Kim Dufault

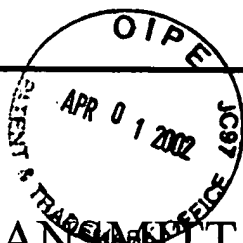
Commissioner for Patents  
Washington, D.C. 20231

Sir:

Submitted herewith are:

Transmittal Form (1 page);  
Information Disclosure Statement (2 pages);  
Form PTO-1449 (2 pages);  
Copies of cited references (A1-A18, C1-C9); and  
Return Receipt Postcard.

# TRANSMITTAL FORM



Application Serial Number	10/007,440
Filing Date	December 4, 2001
First Named Inventor	Crounse
Group Art Unit	2621
Examiner Name	Not Yet Assigned
Attorney Docket No.	XP-1002 (1660/90)
Patent No.	Not applicable
Issue Date	Not applicable

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## ENCLOSURES (check all that apply)

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Check Attached<br><input type="checkbox"/> Copy of Fee Transmittal Form<br><br><input type="checkbox"/> Amendment/Response<br><input type="checkbox"/> Preliminary<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Letter to Official Draftsperson including Drawings [Total Sheets _____]<br><br><input type="checkbox"/> Petition for Extension of Time<br><br><input checked="" type="checkbox"/> Information Disclosure Statement<br><input checked="" type="checkbox"/> Form PTO-1449<br><input checked="" type="checkbox"/> Copies of IDS Citations (A1-A18, C1-C9)<br><br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><br><input type="checkbox"/> Sequence Listing submission<br><input type="checkbox"/> Paper Copy/CD<br><input type="checkbox"/> Computer Readable Copy<br><input type="checkbox"/> Statement verifying identity of above | <input type="checkbox"/> Copy of Notice to File Missing Parts of Application (PTO-1553)<br><br><input type="checkbox"/> Formal Drawing(s)<br><br><input type="checkbox"/> Request For Continued Examination (RCE) Transmittal<br><br><input type="checkbox"/> Power of Attorney (Revocation of Prior Powers)<br><br><input type="checkbox"/> Terminal Disclaimer<br><br><input type="checkbox"/> Executed Declaration and Power of Attorney for Utility or Design Patent Application<br><br><input type="checkbox"/> Small Entity Statement<br><br><input type="checkbox"/> CD(s) for large table or computer program<br><br><input type="checkbox"/> Amendment After Allowance<br><br><input type="checkbox"/> Request for Certificate of Correction<br><input type="checkbox"/> Certificate of Correction (in duplicate) | <input type="checkbox"/> Notice of Appeal to Board of Patent Appeals and Interferences<br><br><input type="checkbox"/> Appeal Brief (in triplicate)<br><br><input type="checkbox"/> Status Inquiry<br><br><input checked="" type="checkbox"/> Return Receipt Postcard<br><input checked="" type="checkbox"/> Certificate of First Class Mailing under 37 C.F.R. 1.8<br><br><input type="checkbox"/> Certificate of Facsimile Transmission under 37 C.F.R. 1.8<br><br><input type="checkbox"/> Additional Enclosure(s) (please identify below) |
|---|--|---|

## CORRESPONDENCE ADDRESS

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## SIGNATURE BLOCK

Respectfully submitted,

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Date: March 26, 2002  
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 Tel. No.: (617) 248-7453  
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PATENT  
Attorney Docket No. XP-1002 (1660/90)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICANT(S): Crounse

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SERIAL NO.: 10/007,440

GROUP ART UNIT: 2621

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FILING DATE: December 4, 2001

EXAMINER:

Not Yet Assigned

TITLE:

HALFTONING WITH UNIFORMLY DISPERSED DOT GROWTH

Commissioner for Patents  
Washington, D.C. 20231

**INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicant hereby makes of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. Copies of the patents and publications are enclosed.

**REMARKS**

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

- ☒ (1) within three (3) months of the **filing date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office action** on the merits, or before the mailing of a **first Office action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or
- ☐ (2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and
- ☐ the requisite Statement is below, **OR**

- ☐ the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein,  
or
- ☐ (3) after the mailing date of a **final action** or **notice of allowance** but before the  
payment of the **issue fee**, **AND**
- ☐ the requisite Statement is below, **AND**
- ☐ the requisite petition fee under 37 C.F.R. 1.17(p), namely **\$180.00** is included  
herein.


It is respectfully requested that each of the patents and publications listed on the attached  
Form PTO-1449, and other information contained herein, be made of record in this application.

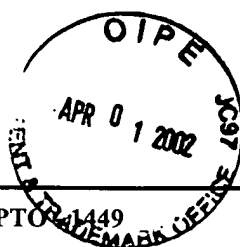
**FEE AUTHORIZATION**

Should any fee associated with the submission of this paper not be attached hereto as a  
check, the Commissioner is authorized to charge the missing fee to our Deposit Account, No. 20-  
0531. Any overpayments should be credited to said Deposit Account.

Date: March 26, 2002  
Reg. No.: 50,773

Tel. (617) 248-7453  
Fax: (617) 248-7100

  
\_\_\_\_\_  
Mark L. Beloborodov  
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High Street Tower  
125 High Street  
Boston, Massachusetts 02110



FORM PTO 1449 INFORMATION DISCLOSURE STATEMENT				ATTORNEY DOCKET NO.: XP-1002 APPLICANT: Crounse SERIAL NO.: 10/007,440 FILING DATE: December 4, 2001 ART UNIT: 2621					
<b>RECEIVED</b> <b>APR 05 2002</b> Technology Center 2600									
U.S. PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE		
	A1	5,111,310	05/05/92	Parker <i>et al.</i>	358	456	12/04/90		
	A2	5,155,599	10/13/92	Delabastita	358	298	07/25/91		
	A3	5,341,228	08/23/94	Parker <i>et al.</i>	358	534	12/03/91		
	A4	5,438,431	08/01/95	Ostromoukhov	358	457	05/20/93		
	A5	5,477,305	12/19/95	Parker <i>et al.</i>	358	456	11/22/94		
	A6	5,543,941	08/06/96	Parker <i>et al.</i>	358	534	05/31/94		
	A7	5,654,808	08/05/97	Herregods <i>et al.</i>	358	456	07/06/94		
	A8	5,677,093	10/14/97	Delabastita <i>et al.</i>	430	30	03/20/96		
	A9	5,700,610	12/23/97	Bosschaerts <i>et al.</i>	430	30	03/20/96		
	A10	5,766,807	06/16/98	Delabastita <i>et al.</i>	430	6	04/24/96		
	A11	5,783,356	07/21/98	Bosschaerts <i>et al.</i>	430	240	03/06/97		
	A12	5,808,755	09/15/98	Delabastita	358	454	04/27/95		
	A13	5,818,604	10/06/98	Delabastita <i>et al.</i>	358	298	05/02/96		
	A14	5,822,451	10/13/98	Spaulding <i>et al.</i>	382	162	06/05/96		
	A15	5,828,463	10/27/98	Delabastita	358	298	03/17/97		
	A16	5,858,589	01/12/99	Govaert <i>et al.</i>	430	30	03/20/96		
	A17	6,020,978	02/01/00	Cooper <i>et al.</i>	358	1.9	09/30/97		
	A18	6,025,930	02/15/00	Thompson <i>et al.</i>	358	1.9	08/12/97		
FOREIGN PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
EXAMINER					DATE CONSIDERED				

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OTHER ART, JOURNAL ARTICLES, ETC.		
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
	C1	"Color Reproduction," <a href="http://www.tu-harburg.de/rzt/tuinfo/periph/drucker/Color_Reproduktion">www.tu-harburg.de/rzt/tuinfo/periph/drucker/Color_Reproduktion</a> (accessed on October 22, 200), pp. 1-9.
	C2	"Ordered Dithering," "Floyd-Steinberg Dithering," "Average Dithering," and "Random Dithering," <a href="http://www.visgraf.impa.br/Courses/ip00/proj/Dithering1/random_dithering.html">www.visgraf.impa.br/Courses/ip00/proj/Dithering1/random_dithering.html</a> (accessed on October 19, 2001).
	C3	"Special Report on Seybold San Francisco, Fall 93," Seybold Special Report, Vol. 2, No. 2, <a href="http://www.seyboldseminars.com/seybold_report/reports/S0202010.htm">www.seyboldseminars.com/seybold_report/reports/S0202010.htm</a> (accessed on October 11, 2001), pp. 1-10.
	C4	"Digital Halftoning," <i>Digital Image Processing I: Purdue University VISE</i> , pp. 1-18, (April 28, 2001).
	C5	"Digital Image Processing Laboratory: Image Halftoning," Purdue University: Digital Image Processing Laboratories, pp. 1-7 (April 19, 2000).
	C6	Cochran, "Blue Nose Mask Image Enhancement," Research Corporation Technologies, pp. 1-7, (June 2000).
	C7	R. Ulichney, "A Review of Halftoning Techniques", Color Imaging: Device-Independent Color, Color Hardcopy, and Graphic Arts V, Proc. SPIE vol. 3963 (January 2000)
	C8	Ostromoukhov et al., "Artistic Screening," <i>Computer Graphics Proceedings, Annual Conference Series</i> , pp. 219-222 (1995).
	C9	Ulichney, 'Digital Halftoning,' The MIT Press, Cambridge, Massachusetts (1987)
EXAMINER		DATE CONSIDERED

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